

ch and Innovation as a driver towards a green, climate neutral and digital world

# 8<sup>th</sup> Ferrara International PhD Workshop 2022\*

BLENDED WORKSHOP Through GoToMeeting web-hosted service IDAUP - International Doctorate in Architecture and Urban Planning

ROBERTO DI GIULIO, IDAUP Programme Coordinator THEO ZAFFAGNINI, DA PhD Programme Supervisor\_DA Deputy Vice-coordinator

#### \*SCIENTIFIC INTERNATIONAL WS COORDINATOR: THEO ZAFFAGNINI ORGANIZATION: M. BISI, E. BOLDRIN, L. MORGANTI, O. PALMINI, I. RUZZIER, L. SACCHETTI, I. SPASARI, A. VOLTA, T. ZAFFAGNINI

#### 04/07 - MONDAY DA, Sala del Consiglio

#### 9:00 1<sup>ST</sup> WEEK REGISTRATION

BRAARIAA MILL

#### 9:30 8TH INTERNATIONAL DA PHD WORKSHOP 2022 OPENING

ROBERTO DI GIULIO PhD, Full Professor, DA IDAUP Program coordinator, University of Ferrara THEO ZAFFAGNINI PhD, Associate Professor, DA Deputy Vice-coordinator IDAUP, University of Ferrara

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**10:00 PRESENTATION AND AIMS OF THE WS SEMINARS BY SCIENTIFIC SEMINARS COORDINATORS** 

10:30 MEETING BETWEEN POLIS PHD CANDIDATES AND DA CO-SUPERVISORS

# THE SCIENTIFIC RESEARCH IN THE FIELD OF ARCHITECTURAL **TECHNOLOGY**

Examples of basic research, experimentation and laboratories aimed to enhance energy efficiency and environmental

14:00 INNOVATIVE AND ENERGY SELF-SUFFICIENT BUILDINGS IN THE DUBAI DESERT. TEACHING, RESEARCH, PROTOTYPING, CONSTRUCTION AND COMPETITION FOR THE WORLD CONTEST SOLAR DECATHLON MIDDLE EAST 2018 AND 2020(21)

VITTORINO BELPOLITI MSc, PhD, Assistant Professor | Department of Architectural Engineering, University of Sharjah

MARTA CALZOLARI MSc, PhD, Assistant Professor | DA, University of Ferrara

PIETROMARIA DAVOLI MSc, PhD, Full Professor | DA, University of Ferrara

16:00 THE LIFE "HEROTILE" PROJECT, NEW PRODUCTS FOR VENTED ROOFS AND FOR PASSIVE CLIMATIZATION

GIOVANNI ZANNONI MSc, PhD, Full Professor, DA, University of Ferrara

17:00 PASSIVE COOLING OF BUILDINGS USING PHASE CHANGE MATERIALS IN **ENVELOPE (PCMS)** 

ELEONORA BACCEGA MSc, IDAUP PhD candidate, DA, University of Ferrara

# 05/07 - TUESDAY FOCCHI S.p.A. Headquarters, Poggio Torriana (RN) **GUIDED TOUR OF FOCCHI SPA INDUSTRY**

Design, manufacture and installation of curtain walling with high technological and service content. Engineering for external cladding of complex structures

#### 9:50 INTRODUCTION

THEO ZAFFAGNINI PhD, Associate Professor, DA Deputy Vice-coordinator IDAUP, University of Ferrara

#### 10:00 PREFABBRICATED TECHNOLOGICAL SOLUTIONS FOR BESPOKE ARCHITECTURAL BUILDING ENVELOPE

ALESSANDRO PRACUCCI MSc, PhD, Innovation Manager, Focchi S.p.A. ALICE PIERLEONI MSc, System Designer, Focchi S.p.A.

# **13:00 VISIT TO FACTORY PRODUCTION FACILITIES AND VISUAL MOCK-UPS EXPOSITION**

TOMAS MAESTRI MSc, Production Engineer, Focchi S.p.A.

08/07 - FRIDAY DA, Room B5

## XXXIV cycle DOCTORATE FINAL DISSERTATION 9:00 START OF THE FINAL EXAMS

**13:00 EXPECTED CONCLUSION OF THE FINAL DISSERTATIONS** 

16:00 PROCLAMATIONS

#### 16:30 ROUND TABLE AND DISCUSSION WITH THE PHD CANDIDATES: "HOW TO DEAL WITH THE FINAL DISSERTATION"

THEO ZAFFAGNINI PhD, Associate Professor, DA Deputy Vice-coordinator IDAUP, University of Ferrara

# 11/07 - MONDAY DA, Sala del Consiglio

#### 10:00 2<sup>ND</sup> WEEK REGISTRATION DIGITIZING AND GREENING THE BUILT ENVIRONMENT

# **10:30 INTRODUCTION**

ROBERTO DI GIULIO PhD, Full Professor, DA IDAUP Program coordinator, University of Ferrara

#### 11:00 TOWARDS RESILIENT, PEOPLE CENTRIC AND CLIMATE-NEUTRAL CITIES THROUGH DIGITAL TRANSMISSION

RIZAL SEBASTIAN MSc, PhD, Professor, Faculty of Technology, Innovation & Society, the Hague University of Applied Science

### 12:00 CONCLUSIONS

ROBERTO DI GIULIO PhD, Full Professor, DA IDAUP Program coordinator, University of Ferrara RIZAL SEBASTIAN MSc, PhD, Professor, Faculty of Technology, Innovation & Society, the Hague University of Applied Science

14:00 KNOWLEDGE ASSESSMENT

#### 12/07 - TUESDAY DA, Sala del Consiglio

DIGITAL SURVEY AND DOCUMENTATION

Research approaches for Knowledge, management and conservation

#### of the built heritage

#### 9:15 INTRODUCTION

FEDERICA MAIETTI MSc, PhD, Associate Professor, DA, University of Ferrara 9:30 DIGITAL DOCUMENTATION AND HERITAGE AT RISK. INSIGHTS WITHIN THE HORIZON EUROPE FRAMEWORK

FEDERICA MAIETTI MSc, PhD, Associate Professor, DA, University of Ferrara

10:15 BIM-BASED AND SEMANTIC TECHNOLOGIES TOWARDS ENHANCED DIGITAL DOCUMENTATION OF ARCHITECTURE AND ARCHAEOLOGY: DATA INTEGRATION AND ENRICHMENT FROM THE NEW ITALIAN CATALOGUE OF CULTURAL HERITAGE

MARCO MEDICI MSc, PhD, Researcher, DA, University of Ferrara

11:20 SCAN TO BIM PROTOCOL FOR CULTURAL HERITAGE DIGITAL DOCUMENTATION AND MAINTENANCE

FABIANA RACO MSc, PhD, Researcher, DA, University of Ferrara 12:00 DIGITAL DOCUMENTATION OF THE IPIRANGA AREA IN SAN PAOLO, BRAZIL

# 06/07 - WEDNESDAY DA. Room B5

## **DIGITAL LANDSCAPE**

## Tools and Strategies to address and design integrated landscape transformations

### 9:00 INTRODUCTION

GIANNI LOBOSCO MSc, PhD, Adjunct Professor, Sealine Research Centre, DA, University of Ferrara

### 9:30 LANDSCAPES AS INFRASTRUCTURES

LORENZO TINTI MSc, PhD candidate, Sealine Research Centre, DA, University of Ferrara

#### 10:30 REPRESENTATION AND ANALYSIS OF EVOLVING LANDSCAPES

GIANNI LOBOSCO MSc. PhD. Adjunct Professor. Sealine Research Centre, DA. University of Ferrara

#### 11:30 COMPUTATION AND BIM IN LANDSCAPE ARCHITECTURE

FIORELLA SCHIAVO MSc, PhD, Co.Founder BIM Creatives, Landscape architect & BIM Manager LAND Italia s.r.l.

BEATRICE MAGAGNOLI MSc, Landscape architect & BIM Manager LAND Italia s.r.l.

# **URBAN IDENTITY: RESEARCH AND INNOVATION**

## Applied research outcomes for innovative urban design

#### 14:00 INTRODUCTION

GABRIELE LELLI MSc, Associate Professor, Scientific Coordinator Next City Lab, DA, University of Ferrara

# 14:10 ARTIFICIAL INTELLIGENCE AND URBANISM: AN INTRODUCTION

OTELLO PALMINI MSc, IDAUP PhD candidate, DA, University of Ferrara

#### 14:40 AI URBANISM: TOWARD THE END OF THE CITY?

FEDERICO CUGURULLO MSc, PhD, Assistant Professor, Dublin Trinity College

#### **15:40 ROUND TABLE AND DISCUSSION**

#### 16:00 URBAN IDENTITY AND DIGITAL REVOLUTION. KEY CONCEPTS AND **URBAN DESIGN TOOLS**

MARCO NEGRI MSc, IDAUP PhD candidate, Next City Lab, DA, University of Ferrara 16:30 INCLUSIVE DEVELOPMENT OF A SMART CITY IN THE AGE OF GREEN AND DIGITAL TRANSITION. NICE VILLE INTELLIGENTE

THEO ZAFFAGNINI PhD, Associate Professor, DA Deputy Vice-coordinator IDAUP, University of Ferrara

**17:30 ROUND TABLE AND DISCUSSION** 

# 07/07 - THURSDAY DA, Room B5

## **SCENARIO PLANNING**

### Uncertainty as a driver for research

9:00 INTRODUCTION

LORENZO TINTI MSc, PhD candidate, Sealine Research Centre, DA, University of Ferrara

## 9:30 SCENARIO EVALUATION BY DESIGN

GIANNI LOBOSCO MSc, PhD, Adjunct Professor, Sealine Research Centre, DA, University of Ferrara

# 11:00 WORKSHOP // SCENARIO PLANNING APPLICATION

# **16:00 RESULT DISCUSSION**

Promoted by









#### LUCA ROSSATO MSc, PhD, Researcher, DA, University of Ferrara

12:40 CONCLUSIONS AND EXPLANATION OF LEARNING ASSESSMENT FEDERICA MAIETTI MSc, PhD, Associate Professor, DA, University of Ferrara

### 14:00 THE DIGITAL CULTURAL HERITAGE FOR THE ADAPTIVE REGENERATION OF **HISTORIC CITIES**

PAOLA PUMA MSc, PhD, Associate Professor, DIDA, University of Firenze 16:00 KNOWLEDGE ASSESSMENT

## 13/07 - WEDNESDAY DA, Sala del Consiglio

# TERRITORIAL PLANNING BETWEEN COHESION AND SUSTAINABILITY 9:00 PLANNING POST-EARTHQUAKE URBAN REGENERATION: THE CASES OF PERUGIA MONTELUCE HOSPITAL AND MASS-TRANSIT SYSTEM MINIMETRO

GASTONE AVE MCRP, Full Professor of City and Regional Planning, DA, University of Ferrara FRANCESCO ALBERTI MSc, PhD, Researcher, Adjunct Professor of City and Regional Planning, DA, University of Ferrara

LUCA FONDACCI MSc, PhD, Research Grant Recipient, Interuniversity Research Center on Pollution and Environmental "Mauro Felli", CIRIAF, University of Perugia

#### 11:00 POST-EARTHQUAKE RECONSTRUCTION PLANS AND EXPERIENCES IN **CENTRAL ITALY**

MASSIMO SARGOLINI MSc, PhD, Full Professor of City and Regional Planning and Director of the Department of Architecture, University of Camerino

## 14:00 POST-EARTHQUAKE RECONSTRUCTION IN THE MARCHE-CENTRAL ITALY **REGION AND THE CHALLENGE OF THE ITALIAN RECOVERY AND RESILIENCE PROGRAM-PNRR**, 2021-2026

GIANLUCA LOFFREDO MSc, PhD, Extraordinary Sub Commissioner of Marche Region, Extraordinary Commissioner 2016 Earthquake Reconstruction, Presidency of the Council Minister

16:00 KNOWLEDGE ASSESSMENT

# 14/07 - THURSDAY DA, Sala del Consiglio

## **URBAN PLANNING BETWEEN RISKS AND INNOVATIONS**

#### 9:00 THE POST-EARTHQUAKE RECONSTRUCTION IN EMILIA-ROMAGNA, THE HOLISTIC PROJECT FOR THE CITY OF FERRARA

FRANCESCO ALBERTI MSc, PhD, Researcher, Adjunct Professor of City and Regional Planning, DA, University of Ferrara

#### 11:00 THE PRODUCTIVE MANAGEMENT OF THE AGRICULTURAL TERRITORY IN EMILIA-ROMAGNA: THE CASE OF THE CUM IN THE CONTEXT OF THE PROTECTION OF THE PO DELTA

CARLO RAGAZZI Degree in Political Science, President of Consortium of Men of Massenzatica, **CUM** Ferrara

14:00 KNOWLEDGE ASSESSMENT

### 16:00 CONCLUSION OF THE 8TH FERRARA INTERNATIONAL PHD WORKSHOP **IDAUP 2022 AND ATTENDANCE CERTIFICATES DELIVERY**

ROBERTO DI GIULIO PhD, Full Professor, DA IDAUP Program coordinator, University of Ferrara THEO ZAFFAGNINI PhD, Associate Professor, DA Deputy Vice-coordinator IDAUP, University of Ferrara

#### NOTE ON THE ONLINE EVENTS

IN ORDER TO BE REGISTERED TO THE 8<sup>TH</sup> FIW OR TO A DAILY SEMINAR, PLEASE WRITE ONE DAY BEFORE THE EVENT TO THEO.ZAFFAGNINI@UNIFE.IT AND TO ILARIA.SPASARI@UNIFE.IT TO OBTAIN THE GOTOMEETING PLATFORM SESSION ID.

FOCCHI

UNIVERSITY OF PORTSMOUTH

In collaboration with





SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA Universidade do Minho

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